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(54) PURIFICATION OF HYDROGEN PEROXIDE SOLUTION

(57)Abstract:

PURPOSE: To safely produce a high-purity hydrogen peroxide solution at a low cost by, in removal of anionic impurities contained in a hydrogen peroxide solution, inhibiting decomposition of hydrogen peroxide caused by a bicarbonate- or carbonate-type anion-exchange resin without lowering the removing ratio of strong acid residues in the anions.

CONSTITUTION: A method for purification of a hydrogen peroxide solution characterized by removal of anionic impurities in the presence of a bicarbonate- or carbonate-type anion-exchange resin from a raw material hydrogen peroxide solution having pH 1.5-5.0 and 10-60wt.% hydrogen peroxide concentration and containing a very small amount of anionic impurities while continuously or semi-continuously adding an acid having ≤ 5 acid dissociation constant pKa in water or its salt in an amount of 0.1-5 milli-equivalent/l-hydrogen peroxide solution.

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